

PTh  
11413



# **PREDICTION OF WEATHER PARAMETERS USING HARMONIC ANALYSIS AND ARTIFICIAL NEURAL NETWORK**

**Submitted to**

**The Maharaja Sayajirao University of Baroda  
Vadodara**

**By**

**Manjusha Kulshrestha**

**Under the guidance of  
Dr R K George**

**In partial fulfillments of requirement  
for the award of the degree of**

**DOCTOR OF PHILOSOPHY IN APPLIED MATHEMATICS**



**DEPARTMENT OF APPLIED MATHEMATICS  
FACULTY OF TECHNOLOGY & ENGINEERING  
M.S. UNIVERSITY OF BARODA  
KALABHAVAN  
VADODARA -390 001**

**December 2006**